



	MODEL	MB-OA-18-36	MB-OA-20-36	MB-OA-30-36
OUTPUT	RATED CURRENT (mA)	435 ± 3%	485 ± 3%	725 ± 3%
	RATED VOLTAGE (V)	36	36	36
	VOLTAGE RANGE (V)	27-36	27-36	27-36
	RATED POWER	18	20	30
	No. OF CHANNELS	Single	Single	Single
	DRIVER TYPE	Isolated	Isolated	Isolated
INPUT	VOLTAGE RANGE Note.4 (VAC)	120-265	120-265	120-265
	INPUT LOWER VOLTAGE CUT- OFF	No	No	No
	FREQUENCY RANGE	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
	EFFICIENCY (Typ.)	>85 %	>85 %	>85 %
	POWER FACTOR	>0.95	0.95	>0.95
	AC CURRENT (mA)	82 ± 5%	91 ± 5%	137 ± 5%
PROTECTION	SHORT CIRCUIT	Yes	Yes	Yes
	OVER LOAD	Yes	Yes	Yes
	OVER VOLTAGE	Yes	Yes	Yes
	INPUT 440VAC PROTECTION	Yes	Yes	Yes
	SURGE	4.5KV	4.5KV	4.5KV
	INPUT OVER VOLTAGE PROTECTION	300VAC	300VAC	300VAC
	INPUT UNDER VOLTAGE PROTECTION	No	No	No
ENVIRONMENT	WORKING TEMP.	-30 ~ 55°C	-30 ~ 55°C	-30 ~ 55°C
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90%	20 ~ 90%
	STORAGE TEMP., HUMIDITY	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%
	POTTING (Y/N)	Optional	Optional	Optional
OTHERS	OPEN FRAME DIMENSION (L*W*H)	95*45*32	95*45*32	95*45*32

	MODEL	MB-OB-45-36	MB-OC-45-48	MB-OB-45-72
OUTPUT	RATED CURRENT (mA)	1090 ± 3%	815 ± 3%	545 ± 3%
	RATED VOLTAGE (V)	36	48	36
	VOLTAGE RANGE (V)	27-36	36-48	60-72
	RATED POWER	45	45	45
	No. OF CHANNELS	Single	Single	Single
	DRIVER TYPE	Isolated	Isolated	Isolated
INPUT	VOLTAGE RANGE Note.4 (VAC)	120-265	120-265	120-265
	INPUT LOWER VOLTAGE CUT- OFF	No	150V	No
	FREQUENCY RANGE	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
	EFFICIENCY (Typ.)	>85 %	>85 %	>85 %
	POWER FACTOR	>0.95	0.95	>0.95
	AC CURRENT (mA)	205 ± 5%	205± 5%	205 ± 5%
PROTECTION	SHORT CIRCUIT	Yes	Yes	Yes
	OVER LOAD	Yes	Yes	Yes
	OVER VOLTAGE	Yes	Yes	Yes
	INPUT 440VAC PROTECTION	Yes	Yes	Yes
	SURGE	4.5KV	4.5KV	4.5KV
	INPUT OVER VOLTAGE PROTECTION	300VAC	300VAC	300VAC
	INPUT UNDER VOLTAGE PROTECTION	No	150V	No
ENVIRONMENT	WORKING TEMP.	-30 ~ 55°C	-30 ~ 55°C	-30 ~ 55°C
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90%	20 ~ 90%
	STORAGE TEMP., HUMIDITY	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%
	POTTING (Y/N)	Optional	Optional	Optional
OTHERS	OPEN FRAME DIMENSION (L*W*H)	116*55*30.5	120*60*30.5	116*55*30.5



MODEL		MB-OB-55-36	MB-OD-72-36	MB-OE-72-60
OUTPUT	RATED CURRENT (mA)	1330 ± 3%	1740 ± 3%	1045 ± 3%
	RATED VOLTAGE (V)	36	36	60
	VOLTAGE RANGE (V)	27-36	27-36	27-36
	RATED POWER	55	72	72
	No. OF CHANNELS	Single	Single	Single
	DRIVER TYPE	Isolated	Isolated	Isolated
INPUT	VOLTAGE RANGE Note.4 (VAC)	120-265	120-265	120-265
	INPUT LOWER VOLTAGE CUT- OFF	No	No	150V
	FREQUENCY RANGE	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
	EFFICIENCY (Typ.)	>85 %	>85 %	>85 %
	POWER FACTOR	>0.95	0.95	>0.95
	AC CURRENT (mA)	205 ± 5%	330 ± 5%	330 ± 5%
PROTECTION	SHORT CIRCUIT	Yes	Yes	Yes
	OVER LOAD	Yes	Yes	Yes
	OVER VOLTAGE	Yes	Yes	Yes
	INPUT 440VAC PROTECTION	Yes	Yes	Yes
	SURGE	4.5KV	5KV	5KV
	INPUT OVER VOLTAGE PROTECTION	300VAC	300VAC	300VAC
	INPUT UNDER VOLTAGE PROTECTION	No	No	150V
ENVIRONMENT	WORKING TEMP.	-30 ~ 55°C	-30 ~ 55°C	-30 ~ 55°C
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90%	20 ~ 90%
	STORAGE TEMP., HUMIDITY	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%
	POTTING (Y/N)	Optional	Optional	Optional
OTHERS	OPEN FRAME DIMENSION (L*W*H)	116*55*30.5	140*60*37	138*60*37

MODEL		MB-OD-72-72	MB-OE-90-60	MB-OD-90-72
OUTPUT	RATED CURRENT (mA)	870 ± 3%	1305 ± 3%	1090 ± 3%
	RATED VOLTAGE (V)	72	60	72
	VOLTAGE RANGE (V)	60-72	48-60	60-72
	RATED POWER	72	90	90
	No. OF CHANNELS	Single	Single	Single
	DRIVER TYPE	Isolated	Isolated	Isolated
INPUT	VOLTAGE RANGE Note.4 (VAC)	120-265	120-265	120-265
	INPUT LOWER VOLTAGE CUT- OFF	No	150V	No
	FREQUENCY RANGE	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
	EFFICIENCY (Typ.)	>85 %	>85 %	>85 %
	POWER FACTOR	>0.95	0.95	>0.95
	AC CURRENT (mA)	330 ± 5%	410 ± 5%	410 ± 5%
PROTECTION	SHORT CIRCUIT	Yes	Yes	Yes
	OVER LOAD	Yes	Yes	Yes
	OVER VOLTAGE	Yes	Yes	Yes
	INPUT 440VAC PROTECTION	Yes	Yes	Yes
	SURGE	5kV	5kV	5kV
	INPUT OVER VOLTAGE PROTECTION	300VAC	300VAC	300VAC
	INPUT UNDER VOLTAGE PROTECTION	No	150V	No
ENVIRONMENT	WORKING TEMP.	-30 ~ 55°C	-30 ~ 55°C	-30 ~ 55°C
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90%	20 ~ 90%
	STORAGE TEMP., HUMIDITY	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%
	POTTING (Y/N)	Optional	Optional	Optional
OTHERS	OPEN FRAME DIMENSION (L*W*H)	140*60*37	138*60*37	140*60*37



MODEL	MB-OD-90-60	MB-OE-120-48	
OUTPUT	RATED CURRENT (mA)	1305 ± 3%	2175 ± 3%
	RATED VOLTAGE (V)	60	48
	VOLTAGE RANGE (V)	48 -60	36-48
	RATED POWER	90	120
	No. OF CHANNELS	Single	Single
	DRIVER TYPE	Isolated	Isolated
INPUT	VOLTAGE RANGE Note.4 (VAC)	120-265	120-265
	INPUT LOWER VOLTAGE CUT- OFF	No	150V
	FREQUENCY RANGE	50 ~ 60Hz	50 ~ 60Hz
	EFFICIENCY (Typ.)	>85 %	>85 %
	POWER FACTOR	>0.95	0.95
	AC CURRENT (mA)	410 ± 5%	550 ± 5%
PROTECTION	SHORT CIRCUIT	Yes	Yes
	OVER LOAD	Yes	Yes
	OVER VOLTAGE	Yes	Yes
	INPUT 440VAC PROTECTION	Yes	Yes
	SURGE	5kV	5kV
	INPUT OVER VOLTAGE PROTECTION	300VAC	300VAC
	INPUT UNDER VOLTAGE PROTECTION	No	150V
ENVIRONMENT	WORKING TEMP.	-30 ~ 55°C	-30 ~ 55°C
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90%
	STORAGE TEMP., HUMIDITY	-20 ~ +60°C, 10 ~ 75%	-20 ~ +60°C, 10 ~ 75%
	POTTING (Y/N)	Optional	Optional
OTHERS	OPEN FRAME DIMENSION (L*W*H)	140*60*37	138*60*37